

SIMONYAN, A.T., prof.; AYVAZIAN, A.I., kand.med.nauk; GYULIKEKHYAN, N.G.;
TOICHYAN, A.A.

Data on the etiology, pathogenesis, and treatment of nephrosis.
Sov.med. 25 no.2:24-36 F '64. (MIRA 14:3)

1. Iz kafedry gospital'noy terapii (zav. - prof. A.T. Simonyan)
Yerevanskogo meditsinskogo instituta (direktor - dotsent S.N.
Galstyan).

(KIDNEYS--DISEASES)

SIMONYAN, A.T.; AYVAZYAN, A.A.; PASHINYAN, S.A.

Hematological changes in periodic disease. Zhur. eksp. i klin. med. 5 no.1:12-18 '65.
(MIRA 18:10)

Ayvazyan, A.A.

COUNTRY : Armenia
CATALOGUE : Diseases of Farm Animals.
Diseases Caused by Helminths.
ARS. JOUR. : ZMZhBiol., No. 3, 1959, No. 12168
AUTHOR : Grigoryan, G. A.; Asopyan, V. D.; Khunbegyan,
The Treatment of Tapeworms in
avitillosis of sheep.
ORIG. PUB. : Veterinariya, 1958, No 4, 43-44
ABSTRACT : The treatment was carried out on more than
12,500 sheep (1 g per head) on farms where
epizootic avitillosis was observed in
sheep. Due to 15-20 days after the continuous
treatment was applied once, the epizooty of
this invasion came to an end. A harmful side
effect of the drug was not established.

Card:

1/1

*A. A. Asopyan, V. D. Khunbegyan, A. A.

AYVAZYAN, A.A.
KARAYEV, A.I.; AYVAZYAN, A.A.

Interoceptors and metabolism. Izv. AN Azerb. SSR no.10:39-49 O '54.
(Receptors (Neurology)) (Metabolism) (MIRA 8:11)

L 34120-66 EWT(m)/EWP(j)/T LIP(c) WN/JWD/RM
ACC NR: AR6017258 SOURCE CODE: UR/0058/65/000/012/E024/E024

AUTHOR: Bartenev, G. M.; Zelenov, Yu. V.; Ayvazov, A. B.

TITLE: Dynamic properties of compositions of polymers in a wide range of temperatures at low and audio frequencies

SOURCE: Ref. zh. Fizika, Abs. 12E169

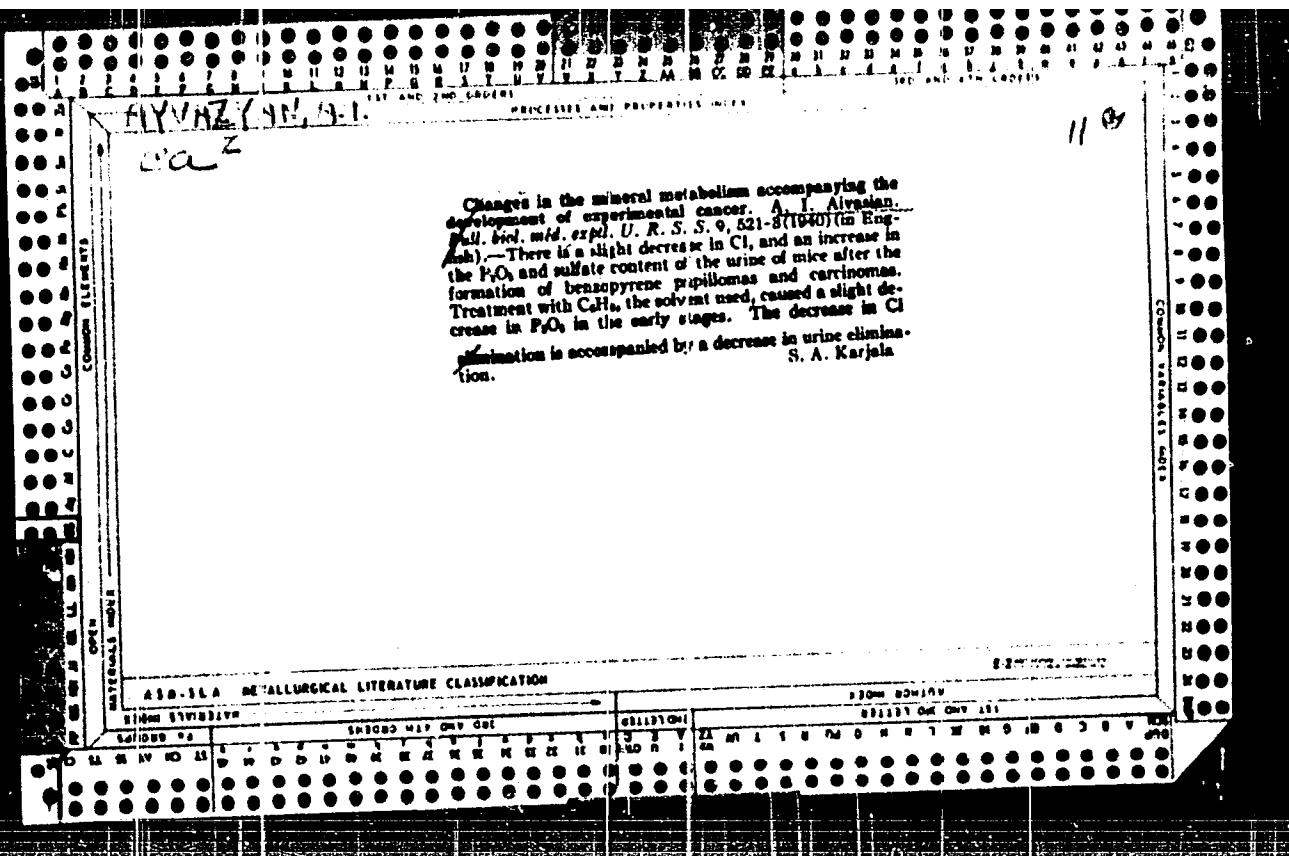
REF SOURCE: Uch. zap. Mosk. obl. ped. in-ta, v. 147, 1964, 129-135

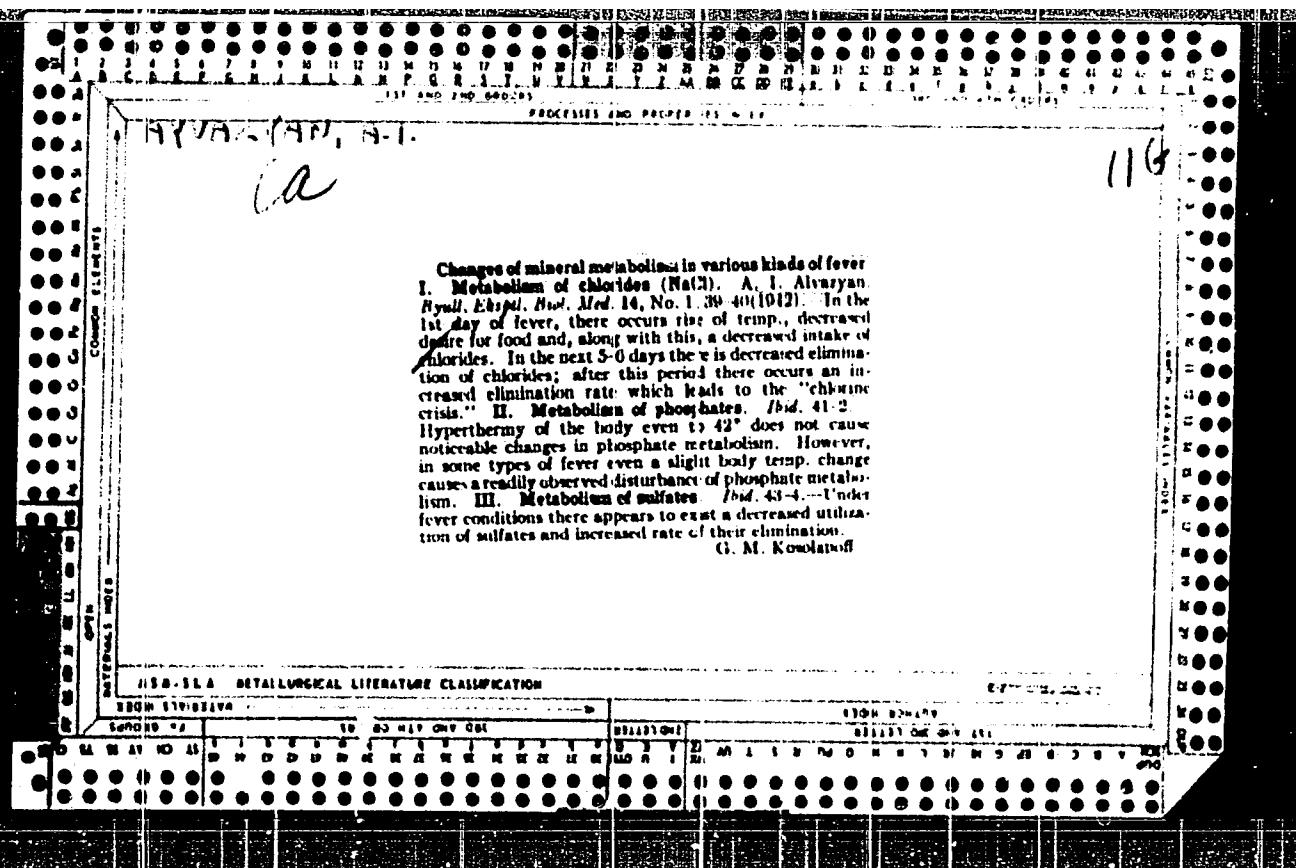
TOPIC TAGS: natural rubber, synthetic rubber, amorphous polymer, crystalline polymer, polymer rheology, temperature dependence

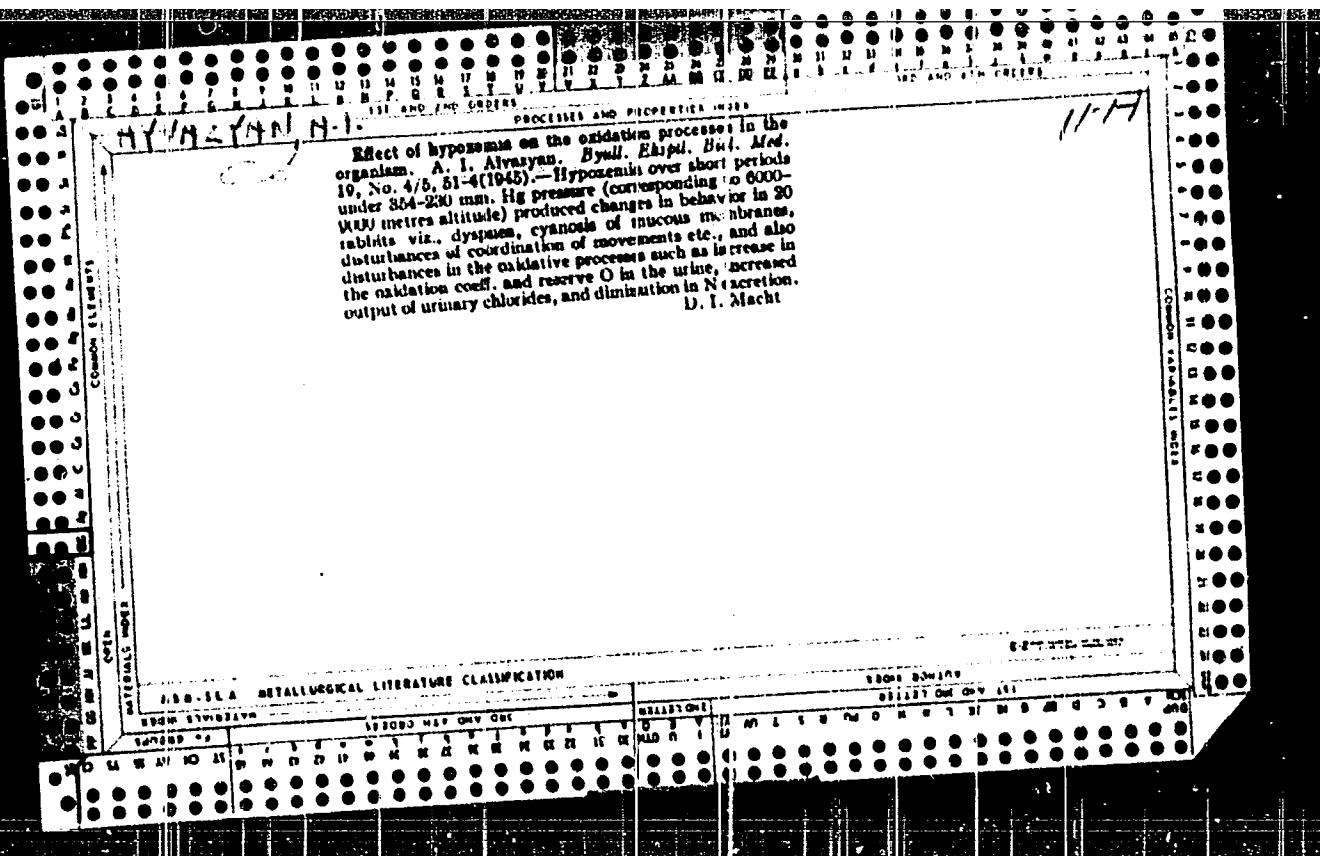
ABSTRACT: The dynamic properties of the compositions of rubbers with a plasticizer, the compositions of polyethylene with poly-isobutylene, and of natural and sodium-butadiene rubbers were investigated with two instruments in a wide range of temperatures. Investigations were made of the relaxation properties of complex compositions, pertaining to systems in which one of the components is crystalline and the other amorphous (crystallizing and noncrystallizing). It is shown that the polyethylene-poly-isobutylene composition behaves like a mechanical mixture, while the polyethylene-rubber compositions behave like solutions. An empirical formula is proposed relating the temperature of the additional maximum of the mechanical losses of the composition with the temperatures of the maxima of each of the components and with their concentration in the mixture. [Translation of abstract]

SUB CODE: 07/

Cord 1/1 (pla)







AYVAKYAN, A. I., SUPONITSKAYA, F.M., LEVTER, G.H., KAYBANOV, G.S.

Mikhail Mikhailovich Pavlov. Pat.fiziol. i eksp.terap. 2 no.3
63-64 Ny-Je '58 (MIRA 11:7)
(PAVLOV, MIKHAIL MIKHAILOVICH, 1883-)

AYVAZYAN, A. I.; KONSTANTINOV, M.V. (Leningrad)

Organization of independent practical activities for students in
the field of pathological physiology. Pat.fiziol.i eksp.terap. 4
no.4:89-80 Jl-Ag '60.
(MIRA 14:5)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. M.M.Pavlov)
I Leningradskogo meditsinskogo instituta imeni akademika I.P.Pavlova.
(PHYSIOLOGY, PATHOLOGICAL--STUDY AND TEACHING)

AYVAZYAN, A. V.

PA 153T72

USSR/Medicine - Antibiotics
Bladder, Inflammation Nov 49

"Treatment of Cystitis With Gramicidin," A. V.
Ayvazyan, Urological Dept, Inst Clinical Hosp,
Yerevan, 1/2 p

"Sov Med" No 11

Discusses results of gramicidin therapy in 45
cystitis cases, giving three detailed examples.
Administration of gramicidin solution in the
bladder of 10-15 cases caused a slight pain for
2-3 hours. Irrigation of the bladder with
gramicidin was used for therapy of chronic
cystitis and administration of oil solution of
██████████
153T72

USSR/Medicine - Antibiotics (Contd) Nov 49

Gramicidin was found to be most effective and
milder method for therapy of acute cystitis.
Both proved more effective than other methods
of therapy.

153T72

AYVAZYAN, A.V.

Tissue therapy in urologic diseases. Ilin.med., Moscow 29 no.3:70-72
Mar 51.
(CLML 20:7)

1. Of the Urological Division (Head--M.A. Karapetyan), First
Clinical Hospital of Yerevan (Head Physician--G.B. Arutyunyan)

AYVAZYAN, A.V.

Interpreting the treatment of hypertrophy of the prostate gland
from Academician I.P. Pavlov's point of view. Izv. AN Arm. SSR. Biol. i
sel'khoz. nauki 6 no.2:95-100 '53. (MLRA 9:8)

1. Urologicheskoye otdeleniye klinicheskoy bol'nitsy, Yerevan.
(PROSTATE GLAND--DISEASES) (HYPERTROPHY)

AYVАЗЯН, А.Վ.

Treating some urologic diseases with biogenous stimulants. Izv. AM
Arm. SSR. Biol. i sel'khoz. nauki 6 no.12:93-97 '53. (MLB 9:8)

1. Urologicheskoye otdeleniye 1-y Klinicheskoy bol'nitsy, Yerevan.
(URETHRAS--DISEASES) (PROSTATE GLAND--DISEASES)
(TISSUE EXTRACTS)

A.Y.AYVASYAN, A.V.(Moskva)

Diagnosis and clinical aspects of pheochromocytoma. Klin.med. 34 no.3:
94-95 Mr '56. (MLRA 10:1)

1. Iz urologicheskogo otdeleniya (zav. - kandidat meditsinskikh nauk
A.V.Ayvasyan) 4-y gorodskoy klinicheskoy bol'ницы Moskvy (glavnyy
vrach-nasluzhenyy vrach RSFSR M.V.Ivayukov)
(PARAGANOLIOMA, case report,
(Rus))

AYVAKYAN, A.V.

[Adenoma of the prostate gland; a manual for the practicing physician]
Adenoma predstatel'noi zhelezы; v pomooshch' prakticheskому vrachu.
[Smolensk] Smolenskoe knizhnoe izd-vo, 1957. 127 p. (MIRA 11:5)
(PROSTATE GLAND--TUMORS)

AIYAZIAN, A.V.

Presacral pneumoperitoneum. Nov.khir.arkh. no.2:77 Mr-Ap '57.
(MLRA 10:8)

1. Kafedra khirurgii Smolenskogo mediteinskogo instituta
(PNEUMOPERITONEUM, ARTIFICIAL)

AYVAZYAN A. V., kandidat meditsinskikh nauk (Smolensk)

Adenoma of the prostate gland. Fel'd. i akush. 22 no. 2:11-13 F '57
(MLEA 10:5)
(PROSTATE GLAND--TUMORS)

AYVAZYAN, A.V., dotsent

Detecting diseases of retroperitoneal organs by means of presacral pneumoretroperitoneum. Vest.rent. i rad. 32 no.1:60-62 Ja-F '57.

(MLRA 10:6)

1. Iz urologicheskogo otdeleniya (zav. - kandidat meditsinskikh nauk A.V.Ayvazyan, konsul'tant - prof. A.Ya. Pytel') 4-y gorodskoy bol'ničay Moskvy (zam. glavnogo vracha po lechebnyy chasti D.M.) Blagerman)

(KIDNEY DISEASES, diag.

pneumoretroperitoneum, presacral)

(PNEUMORETROPERITONEUM, ARTIFICIAL

pneumoretroperitoneum in diag. of kidney dis.)

AYVAZYAN, A.V., dots., TSVETKOVA, G.M.

Clinical picture and pathologic anatomy of pheochromocytoma. Sov.med.
22 no.9:87-92 S'58 (MIRA 11:11)

1. Iz kafedry fakul'tetskoy khirurgii (zav. - prof. S.M. Nekrasov) i
kafedry patologicheskoy anatomii (zav. - prof. V.G. Molotkov)
Smolenskogo meditsinskogo instituta (dir. - dotsent G.M. Starikov).
(PHEOCHROMOCYTOMA,
clin. picture & patiol. anat. (Eng))

~~A~~VAZYAN, A. V., dotsent

Partial excision of the kidney in tuberculous lesions. Vest.khir.
no.6:115-117 '61. (MIR 15:1)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. S.M.
Nekrasov) Smolenskogo meditsinskogo instituta.
(KIDNEYS--TUBERCULOSIS) (KIDNEYS--SURGERY)

AYVAZZYAN, A.V.

Benign tumors of the testicle. Vop. onk. 7 no. 4:100-102 '61.
(MIRA 14:4)

1. Iz kafedry fakul'tetakoy khimurgii (zav. - prof. S.M. Nekrasov)
Smolenskogo meditsinskogo instituta (iir. - dotsent G.M. Starikov).
Adres avtora: Smolensk, ul. Glinki, 3, Meditsinskiy institut.
(TESTICLE--TUMOR;)

AYVAZYAN, A.V.

Examination of the urine in chronic pyelonephritis. Lab. delo
8 no.10-26-28 '62
(MIRA 17#4)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. S.M.Nekrasov)
Smolenskogo meditsinskogo instituta (dir. - dotsent G.M.
Starikov).

AYVAZYAN, A.Y., doctor

Morphological and physical characteristics of blood vessels
in the human kidney. Urologija no.6:9-13 N.D. '63.

(MIRA 17:9)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav., prof.
S.M. Nekrasov) Smolenskogo meditsinskogo instituta.

AYVAZIAN, A.V.

Experimental autotransplantation of part of kidney. Acta chir.
plast. 5 no.2:129-133 '63.

1. Smolensk Medical Institute, Smolensk (U.S.S.R.) Director:
Prof. G.M. Starikov.
(KIDNEY) (TRANSPLANTATION)

AYVAZYAN, A.V.

Interureteral surgical anastomosis. Eksper. khir. i anest.
8 no.4:49-50 Jl-Ag '63. (MIRA 17:5)

1. Smolenskiy meditsinskiy institut.

AYVAZYAN, A.Y., author.)

Kidney amputation in the vegetative form of tuber sclerosis
Khirurgiya 39 no.14:80-83 October (1965) (U.S.S.R.)

1. In Smolenskogo meditsinskogo instituta.

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102710009-1

AYVAZYAN, A.V., dotsent

Experimental autotransplantation of a portion of the kidney.
Trudy SMI 17:21-24 '63. (IIRA 18:1)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000102710009-1"

AYVAZYAN, G.

Insulating 250 kv, 150 kva transformer. Prom. Arm. 5 no. 5:41-44 My
'62. (MIRA 15:7)

1. Arzynanskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta elektromekhaniki.
(Electric transformers)(Electric insulators and insulation)

USSR/Farm Animals. Small Horned Stock.

Q

• Lib Jour: Ref Zhur-Biol., No 20, 1958, 92601.

Author : Agvazyan, G.A.

Inst : Dagestan Scientific Research Institute of Agriculture.

Title : Contribution to the Problem of Constitutional Types
of Dagestan Mountain Sheep Breeds (Preliminary Report).

Orig Pub: Byul. nauchno-tehn. inform. Dagestansk. n.-i. in-ta s. kh.,
1957, No 1, 45-47.

Abstract: Five types of Dagestan mountain sheep breeds are subdivided on the basis of the nature and degree of wrinkling found in the lambs: the non-wrinkling, the normally wrinkling, the single wrinkle, the double wrinkle and the multiple wrinkle. The specific weights of the separate types among the des-

Card : 1/2

AYVAZYAN, G.M.

Complex refractive index for particles of the plasma cellular medium.
Astron.zhur. 42 no.5:926-931 S-9 '65.

(MIRA 18:10)

1. Institut radiofiziki i elektroniki AN ArzN R.

SHIFRIN, K. S.; AYVAZYAN, G. M.

"The effect of light scattering on the correct determination of spectral transparency."

report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

SHIFRIN, K.S.; AYVAZYAN, G.M.

Allowing for the scattering indicatrix in transmissivity
measurements. Trudy GGO no. 153;132-153 '64. (MIRA 17:9)

ACCESSION NR: A14012967

S/0020/64/154/004/0824/0826

AUTHORS: Shifrin, K.S.; Ayvazyan, G.M.

TITLE: Effect of dispersion index upon transparency

SOURCE: AN SSSR. Doklady*, v. 154, no. 4, 1964, 824-826

TOPIC TAGS: meteorology, dispersion index, transparency, transparency measurement, thunderstorm electricity, cloud study, atmospheric precipitation

ABSTRACT: Authors' purpose was to point out a method of corrections when calculating the dispersion index when computing transparency, and to estimate the effect for concrete and typical cases. It was assumed that the medium under examination is sufficiently transparent, so that study was limited to single scattering. Three typical cases were examined. In the case of a parallel beam, the attenuation factor can be determined by a precise formula

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ACCESSION NR: AP4012967

$$\alpha_1 = \frac{1}{L} \ln \frac{E_0}{E_1}. \quad (1)$$

The correction factor will be

$$\Delta\alpha = \alpha_1 - \alpha = \frac{1}{L} \ln (1 + c), \quad c = \frac{E_1}{E_0}. \quad (2)$$

where E_0 is the theoretically calculated intensity and E_1 is the scattered "parasitic" intensity. E_0 can be found by the formula

$$E_0 = E_0 e^{-n\mu L}; \quad (3)$$

and E_1 by the general formula

$$E_1 = \frac{F_1}{S} = \int_V n \frac{1}{\rho^2} \cos \psi I(\beta) e^{-i\alpha_s \rho} dV. \quad (4)$$

In the case of a parallel beam, introducing the cylindrical coordinates (χ, R) and representing the dispersion index $I(\beta)$ in the form

Card 2/4

ACCESSION NR: AP4012967

$$I(\beta) = I_0 \Phi(\beta), \quad (5)$$

$$I_0 = J \frac{\pi \Gamma(v+5) \bar{a}^4}{(v+1)^4 \lambda^4 \Gamma(v+1)} \quad (6)$$

(I_0 - light intensity scattered directly forward; $\Phi(\beta)$ - angular distribution of scattered beam intensity)
the following are valid

$$E_1 = B' e_1, \quad B' = \frac{2\pi^2}{\lambda^3} n \bar{a}^4 Y_v E_1, \quad Y_v = \frac{\Gamma(v+5)}{(v+1)^4 \Gamma(v+1)}, \quad (7)$$

$$e_1 = e^{n_a L} \int_0^L (L-x) e^{-n_a x} dx \int_0^{R_{\text{max}}} \frac{R \Phi(\beta) e^{-n_a R} dR}{[R^2 + (L-x)^2]^{1/2}} \quad (8)$$

The values for $\Phi(\beta)$ were calculated by a theory previously de-

Cord 3/4

ACCESSION NR: AP4012967

veloped by K.S. Shifrin (Sborn. Issledovanie oblakov, ocadkov i grosovogo electrichestva [Collection. Analysis of clouds, precipitation and thunderstorm electricity]. Leningrad, 1957; Vsesoyuzu. gaochu. lesotekhn. inst., no. 2, 1956; Tr. Glavn. geofiz. obs., vol. 100, 1960). Three cases with a parameter of 2,5 and 10 and wavelength of 0.5, 3 and 4 were examined. Orig. art. has: 1 figure, 1 table and 16 equations.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya im. A.I. Voseykova (Main geophysical observatory); Institut radiofiziki i elektroniki Akademii nauk Arm SSR (Institute of radiophysics and electronics of the Academy of Sciences Arm SSR)

SUBMITTED: 05Oct63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: AS, PH

NO REF SOV: 004

OTHER: 00

Card 4/4

~~AYVAZYAN, L.S.~~, inzhener; TITOVICH, Yu.F., inzhener,

Bridge construction innovators. Put' i put. khoz. no. 7:35-36 J1 '57.
(Railroad bridges) (MLRA 10:8)

AYVAZIAN, G.S.

Mechanized shuttling. Put' i put. khoz. no. 2:30-31 F '58.

1. Glavnnyy inzhener sluzhby puti, g. Odrzhonikidze,
(Railroads--Maintenance and repair) (MIRA 11:3)

AYVAZYAN, G.S.

Outstanding railroad workers. Put' i put.khoz. 4 no.8:21 Ag
'60. (MIRA 13:?)

1. Glavnyy inzhener sluzhby puti, Rostov-na-Donu.
(Railroads--Employees--Labor productivity)

AYVIZYAN, G.S., inzh. (g.Rostov-na-Donu); KOLESNIK, A.I., inzh. (g.Rostov-na-Donu)

Railroad efficiency promoters. Put' i put.khoz. 5 no.10:23-24
'61. (Railroads--Maintenance and repair) (MIRA 14:10)

KOLESNIK, A.I.; AIVAZYAN, G.S.

They set the example. Put' i put.khoz. 5 no.9:20 S '61.

(Caucasus--Railroads--Maintenance, and repair) (MIRA 14:10)

AYVAZYAN, G. S.

Welding of used rails. Put' i put. knoz. 6 no. 8:21 '62.
(MIRA 15:10)

1. Glavnnyy inzh. sluzhby puti i sooruzheniy, g. Rostov-na-Donu.

(Railroads--Rails--Welding)

AYVAZYAN, G.S.

In the railroad plants of steel-wire concrete ties. Put' i put.khoz.
6 no.12:5-6 '62. (MIRA 16:1)

1. Glavnnyy inzh. sluzhby puti, Rostov-na-Donu.
(Beslan--Railroads--Ties, Concrete)

KOLESNIK, A.S.; AYVAZYAN, G.S.

Improved labor protection. Put' i put. khoz. 7 no.5:6-7 '63.
(MIRA 16:7)
1. Nachal'nik sluzhby puti Severo-Kavkazskoy dorogi, Rostov-na-
Donu (for Kolesnik). 2. Glavnyy inzh. sluzhby puti Severo-
Kavkazskoy dorogi, Rostov-na-Donu (for Ayvazyan).
(Railroads—Safety measures)

AYVAZYAN, G.S.

Automatic signaling. Put' i put,khoz. R no.4:32-40 '64. (MIRA 17:9)

1. Glavryy inzh. sluzhby puti, Rostov-na-Donu.

AYVAZYAN, L.

USSR.

The regenerative effect of Ringer solution with potassium ions on the cardiac activity affected by thiol compounds. *Dokl. Akad. Nauk SSSR*, 93 (1953); *Referat Zhurn. Khim.*, 1954, No. 20. Spontaneous systole induced by the addition of $CuCl_2$ (10⁻⁴M) were restored by the addition of salts of K.

without potassium poisoning with A. Varyan. *Dokl. Akad. Nauk SSSR*, 93 (1953). — A rhythmic heart beat was depressed by the perfusion of Wierbicki.

USSR/General Biology. General Physiology. Biochemistry. Biophysics. B-1

Abs Jour: Ref. Zhi.-Biol., No 9, 1957, 35028

Author : Karayev, A.I., Ayvazyan, L.A.
Inst :

Title : The Significance of the Sulphydryl Groups in the Activity of
the Ciliate Epithelium

Orig Pub: Dokl. AN AzerbSSR, 1955, 11, No 10, 17-722

Abstract: In reaction to thiol poison, CdCl₂, in a physiological solution, concentration 1:2000, the movement of the ciliate epithelium (CE) of the esophagus of frogs quickens, then after 20 minutes slows down to 30-50%; in a concentration of 1:1000 a sharp slowing down (50 to 80%) takes place without the preliminary quickening. CdCl₂ in the solution of Ringer acts almost the same at a concentration of 1:2000 as at a concentration of 1:1000 in a physiological solution, which strengthens the activity of CE; the preliminary excitement of CE is absent. In reaction to a 0.5% solu-

Card : 1/2

-3-

USSR/General Biology. General Physiology. Biochemistry. Biophysics. B-1
Abs Jour: Ref. Zh.-Biol., No 9, 1957, 35028

tion of urea, used as a source of the sulfhydryl groups on the
depressed by CdCl₂ CE the renewal of movement in the course of
20 minutes occurs only in 20-30% of the cases.

Card : 2/2

-4..

A Y V A Z Y A N L A
USSR/Human and Animal Physiology - Metabolism.

V-1

Abs Jour : Ref Zhur - Biol., No 4, 1958, 17946

Author : L.A., Ayvazyan

Inst : The Azerbaidzhan University.

Title : The Role of the Spleen in the Regulation of Calcium Metabolism and the Activation of Parathormone.

Orig Pub : Uch. zap. Azerb. un-ta, 1956, No 9, 77-82

Abstract : In experiments on dogs a study was made of the influence of the removal of the spleen, the parathyroid glands and the intravenous injection of parathormone on the Ca content of the serum. The removal of parathormone produced a slight (up to 10%) reduction in the Ca content of the serum; parathormone injected against this background lost its capacity to increase the Ca content of the blood. Removal of the spleen and parathyroid glands produced a

Card 1/2

Ayvazyan, L. A.

Effect of irritation of chemoreceptors of the spleen on the content of glycogen in the blood. A. I. Kurayev and I. A. Ayvazyan. *Doklady Akad. Nauk Azerbaidzhana S.S.R.* 12, 171-8 (1958).—Stimulation of innervated spleens of rats was performed by means of acetylcholine and adrenaline, which were perfused through the vessels of the organ. Acetylcholine caused a significant drop in blood glycogen, subject to individual variations in magnitude, followed by a rise usually above normal level. Adrenaline also caused a glycogen decline but this was less pronounced. In 2 cases adrenaline caused a rise in blood glycogen. C. M.

AYVAZYAN, L.R.

KARAYEV, A.I.; AYVAZYAN, L.A.; KUZNETSOV, B.J.

Effect of stimulating pulmonary receptors on the glycogen, sugar,
and lactic acid content of the blood. Uch. zap. ANU no.6:63-71.
'57. (MIRA 11:1)
(LUNGS--INNERVATION) (BLOOD--ANALYSIS AND CHEMISTRY)

KARAYEV, A.I.; AYVAGZAN, L.A.

Effect of stimulation of chemoreceptors of the kidney, spleen
and the mechanoreceptors of the stomach on the proteolytic
enzyme activity of the blood. Uch.sap. AGU Biol.ser. no.1:39-52
'59. (MIRA 13:?)

(DIGESTIVE ORGANS--INNervation) (PROTEIN METABOLISM)

AYVAZIAN, L.A.

Role of liver and spleen in the regulation of calcium metabolism and
activation of parathormone. Uch. zap. AGU. Biol. ser. no.3:57-62 '59.
(MIRA 15:5)

(CALCIUM METABOLISM)

(PARATHYROID HORMONES)

KARAYEV, A.I.; AYVAZYAN, L.A.; ABDULLAYEVA, S.A.

Effect of the stimulation of mechanoreceptors of the stomach and the rectum on the activity of protease in the blood under the conditions of experimental renal deficiency. Uch. zap. Akad. Biol. ser. no.5: 49-55 '59. (MIRA 15:5)

(ALIMENTARY CANAL--INNERVATION) (PROTEASE)
(BLOOD--ANALYSIS AND CHEMISTRY)

KARAYEV, A.I.; AYVAZYAN, L.A.; ABDULLAYEVA, S.A.

Effect produced by stimulating chemoreceptors of the small intestine
on the activity of proteolytic enzymes of the blood. Uch. zap.
AGU, Biol. ser. no.2:59-63 '60. (MIRA 14:3)
(INTESTINES--INNervation) (PROTEASE) (BLOOD--ANALYSIS AND CHEMISTRY)

МАРТАНЕНКО, В. С., РИДЖИАН, ЧИЧОГЕ, А. Г. и АЧЧЕСЯН, Е. Г.

Синтез и превращение олеинов в винилакрилене. I и II. Синтез и превращение олеинов в винилакрилен, кето и гидроксиловые кислоты. Тр. Академии наук РСФСР, хим. науки 18 № 4 (366-370) 1965.

(МИРА 1112)

Л. Институт органической химии Н. Азогунской С. Р. Поданная
июнь 4, 1964.

KOCHARYAN, N.M.; AYVAZYAN, M.T.; KIRAKOSYAN, Z.A.; KAYTMASOV, S.D.

Investigating the spectrum of meson masses at an altitude of 1000m.
above sea level. Dokl. AN Arm. SSR, 15 no.2:33-39 '52.
(MLRA 9:10)

1. Institut fiziki Akademii nauk Artyanskoy SSSR. Predstavleno A.I.
Alidzanyanom.

(Mesons)

AIKAZYAN, M. T.

Nuclear Science Abstracts
July 15, 1954
Physics

INVESTIGATIONS OF THE STRUCTURE OF COSMIC RAYS
AT 1000 m ABOVE SEA LEVEL. N. M. Kocharyan, G. S.
Makyan, M. T. Alkazyan, Z. A. Karakosyan, and S. D.
Salimyan. ZHUF. SSSR. I Teoret. Fiz., 33, 532-43 (1953)

Nov. (In Russian)
An experimental investigation of the structure of cosmic rays at a height of 1000 m showed that the total number of π mesons stopped in an interval range of $32.8 < R < 39.4$, $31.4 < R < 36.8$, and $36.8 < R < 47 \text{ g/cm}^2$, where R less than 6% of the total number of μ mesons stopped in the same range. The ratio of the number of protons with nonionizing paths in the given ranges to the number of protons having ionized paths is equal to 0.52, 0.60, and 0.68. For the interval range $30 < R < 30.8 \text{ g/cm}^2$ a theoretical determination gives the value ~ 0.5 . Analogous determinations of the relative number of π mesons in the same intervals give the values 1.8, 0.87, and 0.42 for γ equaling 1.8, 2, and 3. γ is the exponential ratio in the experimental spectra of π mesons.

7-21-54
P.M.F.

AYVIZYAN, H. T.

Cosmic Rays, Secondary Cosmic Radiation (226)
Dokl. AN Arm. SSR, Vol 16, No 2, 1953, pp 39-43. "Angular Distribution of Protons."

The magnetic mast-spectrometer (A. Alikhanyan, A. Alikhanov, A. Vaysenberg. Dokl. AN Arm. SSR, Vol 5, 1946, p 129) was used to study the angular distribution of protons of cosmic rays at 3200 meters above sea level in the interval of zenith angles (theta) from 0 to 45°. Employing the dependence of the intensity of the particles upon the angle theta in the form $y = y_0 \cos^n \theta$, the authors found that for protons with momenta from $7 \cdot 10^8$ ev/c, $n = 6^\circ$ approximately; and for protons with momenta greater than $8 \cdot 10^8$ ev/c, $n = 3$. No azimuthal asymmetry of the protons was observed. Harder mesons have smaller n than protons for the same interval.

SO: Referativnyy Zhurnal--Fizika, No 1, Jan 54 ;(W-30785, 28 July 1954)

KOCHARYAN, N.N.; AYVAZIAN, M.T.; KIRAKOSYAN, Z.A.; KAYTMAZOV, S.D.

Spectra of proton impulses at 3200 m. altitude above sea level.
Dokl. AN Arm. SSR 17 no.2:33-37 '53. (MIRA 8:2)

1. Fizicheskiy institut Akademii nauk Armyanskoy SSR. Predstavлено
V.A. Ambartsumyanom.
(Протоны)

AYVAZIAN, M.T.

7
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1
RML**EAST-WEST ASYMMETRY
OF PROTONS AND MESONS**

Ayvazyan, L. P., Kalimayev,

Stepanov, V. G.

Report No. 354-1

Prottons at 3200 m of $p > 2 \times 10^5$ ev

and copper blocks and show

 $\cos^2 \theta$ with $a = 0.3 \pm 1.4$,

no east-west effect. A significant

east-west asymmetry for mesons is observed. (Science Abstracts)

RD AND

LAN EASTRIBUTOI

K. N. K

charyan, M. T.

et al.

J. 354-

1963).

(In Russian)

are stopped in lead

in angles distribution $N = N_0$

so east-west effect. A significant

east-west asymmetry for mesons is observed. (Sci-

ence Abstracts)

AYVAZYAN, M.

2819
SPECTRA OF π MESON AND PROTON FORMATION IN
GRAPHITE. N. M. Kocharyan, G. S. Park and M. A.
Ayvazyan. E. A. Kirakosyan, M. A. S. Akhiezer,
(Armenian Inst. of Physics). Izvest. Akad. Nauk S.S.R.,
Ser. Fiz. 19, 608-14 (1955) Sept.-Oct. (In Russian)

The measurements were made with a magnetic spectrometer with the magnetic field kept constant at 7100 Oe. A detailed scheme of the spectrometer, the action of 308, observed negative π mesons at their energies and the experimental data of 1089 observed protons with energies $E > 0.05$ Div generated by the neutrons in the layer of 7.3 g/cm² graphite + 0.54 g/cm² copper (counter walls) are given. The proton spectrum in the impulse of $p < 28$ ev/c and the energy spectra of protons and negative π mesons generated on graphite absorber are also shown. (R.V.J.)

AYVAZIAN, M.T.

✓ 4770

ENERGY SPECTRUM OF PROTONS AT 3200 m ABOVE SEA
LEVEL. N. M. Kocharyan, G. S. Stukhan, H. T. Alyabyan,
Z. A. Strikowyan, and G. A. Alekseenya. (Armenian Inst.
of Physical. Invest. Akad. Nauk S.S.R.) Ber. Fiz. 19, 515-

19(1955) Sept.-Oct. (In Russian)

Spectra of protons in the impulse range of $p \leq 8$ Bev/c was determined in previous works. With high impulses the copper absorbers located under the magnetic clearances prevented the direct separation of the proton beams from the μ -meson beams. Nevertheless, this division was obtained indirectly by investigation of the interaction of the particles in the absorber and the observation of the phenomena that μ mesons do not interact with nuclei while the protons do. The measurements were taken under the magnetic clearances from six copper absorbers with total surface density of 176 g/cm². μ mesons which stopped in these absorbers had impulses of $p \approx 0.4$ Bev/c. Protons with $p \leq 1.1$ Bev/c impulses were stopped because of ionization, but with large impulses they stopped because of internuclear interactions. (R.V.J.)

100% - Enr.

KOCHARYAN, N.N.; AYVAZYAN, H.T.; KIRAKOSYAN, S.A.; ALEKSANYAN, A.S.

Impulse spectrum of μ -mesons at an altitude of 3200 meters above sea level. Dokl. AN Arm. SSR. 20 no.5:169-175 '55. (MIRA 8:7)

1. Institut fiziki Akademii nauk Armyanskoy SSR. Predstavлено A.L. Shaginyanom. (Mesons)

Ayvazyan M.D.
USSR/Nuclear Physics - Elementary Particles

C-3

Abst Journal : Referat Zhur - Fizika, No 12, 1956, 33922

Author : Kocharyan, N. M., Saakyan, G. S., Ayvazyan, M. D.,
Kirakosyan, Z. A., Aleksanian, A. S.

Institution : Institute of Physics, Academy of Sciences Armenian SSR

Title : Nuclear Interaction of π^- -Mesons in Copper

Original
Periodical : Dokl. AN SSSR, 1955, 105, № 6, 1204-1207

Abstract : A magnetic spectrometer was used to study the spectra of creation of π^- -mesons, generated in copper absorbers at an altitude of 3,250 m. Approximately 300 π^- -mesons with a total energy exceeding 510 Mev were recorded. The energy spectrum of the resulting π^- -mesons can be approximated by a power law with an index $\gamma = 2.2$. The magnitude of the interaction cross section of π^- -mesons with copper nuclei turned out to be weakly dependent on the energy and close to its geometrical value.

Card 1/1

11YVA2VBV, M.7

USSR/Nuclear Physics - Cosmic Rays.

C-7

Abs Jour : Ref Zhur - Fizika, No 4, 1957, 8874

Author : Ayvazyan, M.I.

Inst : Institute of Physics, Academy of Sciences, Armenian SSR.
Title : Momentum Spectrum of Deuterons in the Vertical Cosmic-Ray
Flux.

Orig Pub : Izv. AN ArmSSR, ser. fiz.-matem., estestv. i tekhn. n., .
1956, 9, No 3, 91-101

Abstract : Using a magnetic mass spectrometer and a double proportional counter, a determination was made of the number of deuterons in the flux of cosmic-rays at an altitude of 3200 meters in the momentum range from 0.7 to 1.7 Bev/c, under a lead filter 32 g/cm² thick. The spectrum obtained has a sharp maximum at approximately 1.2 Bev/c, and the maximum deuteron flux is 0.75 0.14 cm⁻² sec⁻¹ steradian⁻¹ (Bev/c)⁻¹.

Card 1/1

AYVAZYAN, M.T.

500 fmz

537.591.1

194. MESON COMPONENT OF THE COSMIC RADIATION
AT AN ALTITUDE OF 3200 m ABOVE SEA LEVEL.

H.M.Kocharyan, M.T.Ayvazyan, Z.A.Kir

J.S.Aleksanyan,

Z.M.Ekeper. Izv. Fiz. Vol. 30, No. 2, 239-7 (1956). In

Russian.

The μ -meson momentum spectrum in the momentum range $0.4 \leq p \leq 14$ BeV/c has been measured at an altitude of 3200 m above sea level. The ratio between the numbers of protons and μ -mesons at this height has been determined. The momentum dependence of the ratio between the numbers of positive and negative μ -mesons has also been determined. A.

I-Fizicheskiy Inst. Akademii Nauk
Armyanskoy SS R.
(cosmic rays) (Mesons)

Category : USSR/Nuclear Physics - Cosmic rays

C-7

Abs Jour : Ref Zhur - Fizika, № 1, 1957, № 648

Author : Kocharyan, N.M., Saskyan, G.S., Ayvazyan, M.T., Alekseyan, A.S., Kirakosyan, Z.A.

Inst : Phys. Inst. Arm. SSR Acad. of Sciences

Title : Nuclear Interactions of High Energy Protons in Copper.

Orig. Pub : Dokl. AN SSSR, 1956, 107, No 5, 668-670

Abstract : A cosmic ray spectrometer was used to determine the cross sections of interactions between protons with an average energy of 12 Bev and copper nuclei:

Energy range, Bev	Cross Section, Barns
0,91-1,38	0,755 0,14
1,38-2,38	0,676 0,07
2,38-5,50	0,750 0,09
5,50-oo	0,01 0,19

The authors determined earlier that for π^+ -mesons the cross section equals the geometric cross section for energies greater than 1 Bev.

Card : 1/1

AYVAZYAN, M T

21
A large amount of plutonium was sent to the
U.S. Atomic Energy Commission, No.
14 of which was used to construct
the first atomic bomb. The plutonium
was obtained from the reactor
of the Soviet Union.

The plutonium was obtained from
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The plutonium was obtained from
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22
Reactors at the
S. S. Sakharov and
D. D. Ulyanov (1441,
1057) (in Russia),

were built with the
help of the Soviet
Union. Graphite
and mesons from

the reactors in the
ratio of 1 to 1.

For the first time
in the world, the
ratio of interaction
of the two types of
mesons was measured.

For the first time
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mesons was measured.

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For the first time
in the world, the
ratio of interaction
of the two types of
mesons was measured.

Ayvazyan, G. M.
AYVAZIAN, G.M.

Characteristics of turbulent bed streams in areas of break-off flow.
Izv. AN Arm. SSR, Ser. tekhn. nauk 10 no. 2:3-26 '57. (MIRA 10:10)

1. Moskovskiy institut inzhenerov vodnogo khozyaystva im.V.P. Vil'yamса.
(Hydrodynamics)

AYNAZYAN, O.M., Cand Tech Sci--(disc) "On certain properties of
river-bed streams in the interrupted flow," ^{lectures of} ~~sections of~~ Nov, 1953.

28 pp with drawings (Min of Agr USSR. Min Inst of Engineers of
Water Resources in V.R. Vil'yanie. Chair of Hydraulics), 110 copies
(HL,22-58,107)

10(

SOV/99-59-5-6/9

AUTHOR: Ayvazyan, O.M., Candidate of Technical Sciences

TITLE: On Kinematic Conditions and Energy Dispersion on the Flat Surfaces of the Boundary Line in Turbulent Channel Flows

PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 5, pp 45-51 (USSR)

ABSTRACT: The article is concerned with fluid mechanics and lays stress on the boundary layer phenomenon. It mentions the Gidravlicheskaya laboratoriya Moskovskogo instituta inzhenerov vodnogo khozyaystva imeni Vil'yamsa (Hydraulic Laboratory of the Moscow Institute of Engineers of Water Economy imeni Vil'-yams) for its tests in this sector. In addition to this, the names of non-Soviet scientists Prandtl and

Card 1/2

SOV/99-59-5-6/9

On Kinematic Conditions and Energy Dispersion on the Flat
Surfaces of the Boundary Line in Turbulent Channel Flows

Froude are mentioned (Prandtl's formula, Froude's
number). There are 4 diagrams, 1 table, 1 graph, and
3 Soviet references.

ASSOCIATION: MIIVKH

Cited 2/2

AYVAZYAN, O.M., kand.tekhn.nauk

Properties of turbulent streams in channel sections marked
by the development of nontransitional circulating
masses. Nauch.sap. MIIVKH 21:206-233 '59.
(MIRA 13:8)
(Hydraulics)

AYVIZYAN, O.M.

(Moskva)

Modern theory of hydraulic resistance of waterways and the
experimental data. Izv. AN SSSR Mech. i mashinostr. no.4:
190-194 Jl-Ag '64 (MIRA 17:8)

1. AYVAZIAN, P. K.; SAFARYAN, D. L.
2. USSR (600)
4. Viticulture-Ararat Valley
7. Using green shoots for layering in Ararat Valley. Vin. SSSR 13, No. 5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000102710009-1"

AYVAZIAN, P. K.: Doc Biol Sci (diss) ... "Heredity and variability of the grape vine". Odessa, 1958. 40 pp (Odessa State U im I.-I. Mechnikov), 150 copies (KL, No 6, 1959, 129)

USSR/General Biology - Genetics. Plant Genetics.

B.

Abs Jour : Ref Zhur - Biol., No 21, 1958, 94689

of the same hybrid from various parts of the shoot and on other varieties (Sereksiya, Shasla petrushechnaya, Matyash-Yanosh). Graftings were also made of Mikhali variety seedlings from seeds of free pollination on different scions of wild and cultivated varieties. Here also in separate cases a strong change was found in the rootstock, and not in others. Material is also cited of other analogous experiments which testify that under the influence of rootstocks such characteristics in the scion can be changed as color of shoots and leaves, color, taste and size of berries, degree and character of incision of the leaf blade, leaf edge, resistance to mildew, growth and harvest capacity, chemical composition of berries, activity of ferment. -- A.I. Kuptsov

Card 2/2

AYVAZYAN, P.K.

COUNTRY : USSR
CITY : Institute of Viticulture and Fruit Growing, Belgorod, Novo-Azovsk
REG. NO. : RKhPIol., No.4, 1969, №.15830
NAME : Ayvazyan, P.K.; Vaynshteyn, Ya.Y.
TITLE : Ukr.Sci.Res.Inst.of Viticulture and Wine-Making
SUBJ. : Prospective forms of Commercial Grapes Bred at
Tbilisi Tsirov Institute.
COUNTRY : USSR
CITY : Belgorod, Institute of Viticulture and Fruit Growing, Belgorod, Novo-Azovsk
SUBJ. : The Institute has developed 93 hybrid forms of
commercial grapes. A description is given of
11 varieties developed from crossing Alicante Pouschet X
X Cabernet Sauvignon.

Card:

1/1

..... cultivated plants.

Mrs. JOSE : Dr. Leon S. Bagolyan, A., S., 1959, No. 20484

AUTHOR :
FIRM :
TITLE :

DATE, PLACE :

ABSTRACT : different ages (from the cotyledon to 3-9 years old) served as the grafts. In all, 973 grafts were studied. The most vigorous growth and better ripening of the shoots were found in the seedlings grafted onto Ruparia x Rupestrina 101-14 and 3309. Seedlings raised on the weakly growing rooted vines of later stage varieties Superavi, White Muscat and others, were in no way distinguishable from the control plants in their growth and devel-

CLASS: 2/4

AYVAZYAN, Petros Karapetovich (Ukrainian Sci res Inst of Viticulture
and Winemaking im. Tairov) for Doctor of Biological Sciences on the
basis of dissertation defended 27 Jan 59 in Council of the Odessa
State University im. Mechnikov, entitled: "Heredity and Mutations of
Grape Vines" ^{Viniculture} ^{Versibility} ^{Mutations}
"Vine-Grapes." (EMVISSO USSR, 2-61, 24)

227

AYVAZYAN, P.M.

Growing grapevine seedlings between leaved-rootstock and
foliar mentors. Izv. AN. Arm. SSR. Biol. nauki 16 no.10:
29-4C 0'63 (MIRA 16:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut vinogradarstva
i vinodeliya imeni Tairova.

S/026/61/000/011/002/004
D221/D301

AUTHOR: Ayvazyan, S.A.

TITLE: Statistical analysis of control of steel for non-metallic inclusions

PERIODICAL: Standartizatsiya, ²⁵₁, no. 11, 1961, 22-27

TEXT: The Matematicheskiy institut AN SSSR (Mathematical Institute of the AS USSR) in cooperation with Eksperimental'nyy i nauchno-issledovatel'skiy institut podshipnikovoy promyshlennosti (Experimental Scientific Research Institute of the Ball-bearing Industry) carried out a statistical analysis of control of non-metallic inclusions in its steel during 1959-1960. The unit of measurement in the established metallographical method is formed by the standard field of viewing of the microscope. The controlled quantitative index has a certain relationship to the total area taken up by the non-metallic inclusions within one field of viewing, and partially also to the latter's interrelationships. First, it is necessary to ascertain the most characteristic indication of

Card 1/4

Statistical analysis of ...

S/C 28/61/000/011/002/004
D221/D301

etc. The dispersion of points of the corresponding curves brought out several hypotheses on the form of function $\bar{F}(x)$. The combination of the analysis with the indicated method will permit the correct theory to be selected. Evaluation by the average mark instead of the average index of inclusions based on a scale of double indexation as per ГОСТ(GOST) 1778-57 is given as an example! It allows a limitless increase of accuracy by the expansion of function into the Taylor series. The transfer from one scale to the other can be ensured, for example, by the use of logs. It produces, however, an inconsistency of statistical proof of any system. The tests carried out demonstrated that the variation of O with different factors is fairly accurately expressed by a linear relationship. Consequently, evaluation of O can be made by various methods, four of which are described by the author. The first consists of the assessing the maximum mark of a series of specimens, as per GOST-801-60. The second - on the arithmetical average from maximum marks of m specimens, as per GOST 1778-57. The third method is based on the fraction of specimens with a maximum mark which is no less than the fixed level y_0 . Finally, the fourth is evaluation on the basis of viewing

Card 3/4

Statistical analysis of ...

S/028/61/000/011/002/004
D281/D301

fields with a mark above a certain fixed level y_0^1 . The comparison of results demonstrated that the second method is optimum. Practice indicates that sampling should be made from the upper, middle and lower parts of first, middle and last casting.

Card 4/4

AYVAZYAN, S.A.; MESHALKIN, L.D.; PISARENKO, V.F.

"Mathematical statistics in technology" by A.M. Dlin. Reviewed
by S.A. Ayvazian, L. D. Meshalkin, V. F. Pisarenko. Zav.lab. 27.
no.10:1280-1281 '61. (MIRA 14:10)

1. Matematicheskiy institut AN SSSR (for Ayvazyan). 2. Kafedra
teorii veroyatnostey Moskovskogo gosudarstvennogo universiteta
(for Meshalkin, Pisarenko).

(Mathematical statistics)
(Dlin, A.M.)

FLEKSER, L.A., kand. tekhn. nauk, nauchnyy sotrudnik; AIVAZIAN, S.A., nauchnyy sotrudnik

Dependence between the indices of the numerical and weight distribution of cotton by its length. Tekst. prom. 24 no.3:67-72 Mr '64.
(MIRA 17:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut khlopcatobumazhnay promyshlennosti (for Fleksor). 2. Matematicheskiy institut AN SSSR imeni V.A. Steklova (for Ayvazyan).

3.1800 (1041,1062,1178,1121)

S/033/61/038/002/003/011
E032/E414

AUTHORS: Mustel', E.R. and Ayvazyan, S.A.

TITLE: Quantitative Analysis of Statistical Relations
Between Plages and M-Disturbances

PERIODICAL: Astronomicheskiy zhurnal, 1961, Vol.38, No.2,
pp.227-241

TEXT: In a previous paper (Ref.1) the first of the present authors carried out a statistical study of M-disturbances for five cycles of solar activity. It was concluded that, for plages belonging to group I, the only stable formation on all the statistical curves considered in Ref.1 is the right-hand maximum. The aim of the present paper is to give a statistical analysis of the results derived in Ref.1, using modern methods of the theory of probability and mathematical statistics. The principal aim is to show that the right-hand maximum in the statistical curves plotted for group I is not a random statistical formation but is real. It is concluded that the geomagnetic field associated with "non central" plages is time independent (on the average) while the mean strength M-disturbances in the case of "central" plages varies with time in accordance with a definite and stable law.

Card 1/3

Quantitative Analysis ...

S/033/61/038/002/003/011

E032/E414

This dependence can be approximately represented by two straight lines with a maximum at $t \approx +6^{\circ}$. A typical curve of this type is shown in Fig.3. This figure refers to group I; circles are experimental and the dashed curve is the theoretical fit. The probability that the form of the curve is as shown by the dashed curve in Fig.3 rather than random variation about a mean is 3.1×10^9 . Variance analysis, χ^2 test, regression analysis, method of least squares etc, are used to confirm, and give a statistical basis for, the conclusions drawn in Ref.1. It is now definitely established that the passage of plages across the apparent centre of the solar disc is accompanied by geomagnetic disturbances. Acknowledgments are made to corresponding member AS USSR N.V.Smirnov for advice and consultations and to A.S.Dvoryashin for his assistance with data. There are 5 figures, 8 tables and 9 references: 7 Soviet and 2 non-Soviet.

ASSOCIATIONS: Astronomicheskiy sovet AN SSSR
(Astronomical Council AS USSR)
Matematicheskiy institut AN SSSR im. V.A.Steklova
(Mathematics Institute AS USSR imeni V.A.Steklov)

Card 2/3

Quantitative Analysis ...

S/033/61/038/002/003/011
E032/E414

SUBMITTED: November 1, 1960

Fig. 3.

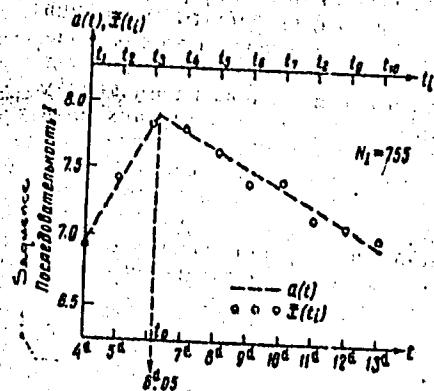


Рис. 3

Card 3/3

AIVAZIAN, S.A.; KOLMOGOROV, A.N.; MESHALKIN, L.D.; PISARENKO, V.F.

"Mathematical statistics in techniques" by A.M. Dlin. Reviewed
by S.A. Aivazian and others. Teor. veroyat. i ee prim. 7 no.2:
243-248 '62. (MIRA 15:5)

(Mathematical statistics)
(Dlin, A.M.)

AYVAZY.N, S.A.; KATSEV, P.G.

Method of determining essential difference between two mean ex-
ponents. Zav.lab. 28 no.7:843-845 '62. (MIRA 15:6)
(Testing) (Mathematical statistics)

FLEXSER, L.A.; AYVAZYAN, S.A.

Manifestation of the law of lengthwise weight distribution in
cotton fibers. Izv.vys.ucheb.zav.; tekhn.tekst.prom. no.1:33-41
'62. (MIRA 15:3)

1. Moskovskiy tekstil'nyy institut i TSentral'nyy nauchno-issledo-
vatel'skiy institut khlopcatobumazhnay promyshlennosti.
(Cotton--Testing)

DUDORIN, V.I.; SMERTIN, A.A., kand. ekon. nauk, retsenzent;
AYVAZYAN, S.A., red.; PETUKHOVA, G.N., red.izd-va;
EL'KIND, V.D., tekhn. red.

[Mathematical methods used in the planning of machinery manufacture] Matematicheskie metody v planirovaniu mashino-stroitel'nogo proizvodstva. Moskva, Mashgiz, 1963. 296 p.
(MIHA 16:6)

(Machinery industry--Management)
(Electronic computers--Programming)

GEMINOV, V.N.; TRUNIN, I.I.; TARKHANOV, G.V.; BORZDYKA, A.M.; AYVAZYAN, S.A.

Discussion concerning the interpretation of the results of testing
of the stress-rupture strength of a metal of several smeltings.
Zav.lab. 29 no.7:827-837 '63. (MIRA 16:8)

1. Institut metallurgii im. A.A.Baykova (for Geminov). 2. TSentral'nyy
nauchno-issledovatel'skiy i proyektnyy institut tekhnologii i
mashinostroyeniya (for Trunin, Tarkhanov). 3. TSentral'nyy
nauchno-issledovatel'skiy institut chernoy metallurgii im.
I.P.Bardina (for Borzdyka). 4. Matematicheskiy institut im.
V.A.Steklova AN SSSR (for Ayvazyan).
(Metals--Testing)

ACCESSION NR: AP4041768

S/0032/64/030/007/0832/0851

AUTHOR: Ayvazyan, S. A.

TITLE: The application of methods of correlation and regression analysis to the elaboration of the results of an experiment

SOURCE: Zavodskaya laboratoriya, v. 30, no. 7, 1964, 832-851

TOPIC TAGS: regression analysis, correlation statistics, probability, confidence interval, chi square distribution, curve fitting

ABSTRACT: A review of probability and mathematical statistical methods is presented to familiarize those with nonmathematical backgrounds with the use of correlation and regression analysis in the solution of practical problems. Axioms and conventions of probability theory (with universal and null sets and their probabilities), additive rules, and empirical estimating of probability are defined. Probability density function and cumulative distribution function are shown both graphically and mathematically for the case of a continuous random variable, as well as expected value (mathematical expectation), conditional probability, and moments of a probability distribution. The manner of empirically evaluating the parameters of a normal distribution from test observations is outlined. Hypothesis testing by

Card 1/2

ACCESSION NR: AP4041768

means of chi-square and student T distributions is formulated. Various relationships among random and deterministic variables occurring in industry and laboratory work are presented. Solution of the parameters of the slope-intercept form of the straight-line equation based upon observations of random data is discussed along with other curve-fitting strategems. The mathematical evaluation of correlation coefficients and interpretation of their use are shown in the context of an example problem correlating television sets with population density in the U.S. Related correlation methods by Spearman and by Kendall are also detailed and compared. Orig. art. has: 35 equations and 6 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MA

NO REF SOV: 007

OTHER: 002

Card 2/2

MKRTCHIAN, K.A.; AYVAZIAN, S.M.

More about Metsamorsk mining and metallurgical buildings. Izv.
AN Arm. SSR. Nauki o zem. 17 no. 5:59-64 '64. (MIRA 17:10)

1. Upravleniye geologii i okhrany nedor pri Sovete Ministrov
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